



TYPICAL REQUIRED INSPECTIONS

The following is a list of required inspections in their normal order of completion. Although they all may not be applicable to your particular project, please use it as a general guideline:

1. POST ADDRESS ON JOB SITE VISIBLE FROM STREET – IF NOT POSTED, THIS WILL DELAY YOUR INSPECTIONS.

2. Temporary Construction Power (State of Tennessee)*

Light and Power will inspect temporary power sets after a meter socket can, disconnect, and ground fault protected receptacles are placed on the building site.

3. Footing Inspection

This is done after the excavation is complete, all vegetation removed, footing has been formed and any reinforcing steel is installed and tied in place with all corners bent, but prior to the placement of concrete. Any prescribed below-grade insulation must also be in place. Please do not backfill any excavation with stone, sand, or other material without the Inspector's prior approval. If "fill" is encountered an Engineer designed footing shall be required. Note: Portable toilet facilities are required on the job site.

4. Foundation Inspection

This is done after the foundation walls have been formed and the reinforcing steel is installed, but also prior to placement of framing, this will consist of, but not limited to, the following issues:

- A. **Block work:** Masonry walls shall be designed and constructed in accordance with the 2009 IRC. All voids are to be filled on both the interior and exterior of all foundation walls. All walls shall be supported, reinforced and anchored.
- B. **Piers:** All piers shall conform to the regulations as set forth in the 2009 IRC.
- C. **Anchor Straps/bolts:** Anchor bolts/Anchor straps are required every six feet and within 12" of the ends/splices with a minimum of 2 per plate. Anchor bolts are to be (embedded into 7 inches of concrete or masonry), anchor straps are to be installed in accordance with the manufacturer's instructions.
- D. **Damp proofing:** Masonry and Concrete foundations shall be damp proofed per 2009 IRC.
- E. **Foundation Drains:** All foundations that retain earth and enclose habitable or usable spaces located below grade shall be provided with drainage and discharge by gravity or mechanical means into an approved drainage system.
- F. **Crawlspace grading:** The crawlspace is to be sufficiently graded so that any water infiltration will drain adequately with a positive drain which shall terminate into the foundation drain and be taken to daylight.

5. Rough-In Underground Plumbing

This is done after the underground or under slab plumbing is installed but prior to its being covered. (10' head Water test or five psi air test is required).

6. Sewer Inspection*

This is done when the building sewer (that portion of the drainage system from two feet outside the building to public sewer) is installed, and prior to its being covered.

7. Water Service*

This is done when the water service piping from the City stop valve to the building is in its place and prior to its being covered. A water test is required if couplings are used.

8. Gas Line Air Test*

This shall be made after gas piping, fittings, unions, and valves authorized by the permit have been installed and before any such piping has been covered or concealed or any fixture or appliance has been attached thereto. (A 10 psi air test is required or 2 ½ times working pressure).

9. Braced Wall Panel

This is done when the Interior/Exterior sheathing has been installed per approved plans.

10. Brick Ties

This is done to check spacing of brick ties and can be done with other Inspections prior to installation.

11. Plumbing Rough-In Inspection

This is done after the above ground plumbing (water and drainage piping) is installed, prior to the framing inspection (10' head water test or five psi air test is required). Piping must not be covered until after the framing inspection, and where applicable, concurrent with the framing inspection.

12. HVAC Rough-In Inspection

This is done after the heating/cooling system has been installed, all ductwork, gas lines, line sets, vents have been installed. This inspection should precede or be concurrent with the framing inspection.

13. Electrical Rough-In Inspection (State of Tennessee)*

This is done after the premises wiring system has been installed, and it should precede or be concurrent with the framing inspection.

14. Fireplace Inspection

This inspection will also be done concurrently with the frame inspection about midway in the laying-up of a masonry fireplace while the lintel across the opening is visible and the smoke chamber can be easily seen and its wall thickness noted. For a factory built fireplace, it should be inspected after the fireplace, the chimney, the chimney framing and the fire stopping is completed, but prior to covering the shaft or fireplace framing members.

15. Frame and Roof Inspection

This is done after the structures walls, floors, and other framing members are in place and after the exterior sheathing, flashings, brick ties has been installed. Additionally, the roof must be completed to the point where the building interior can be considered to be weather protected. All of the sub-trades such as plumbing, mechanical, and electrical must be inspected and approved before requesting this inspection prior to the installation of wallboard, interior sheathing and insulation. All fire blocking must be done at the time of this inspection. Residential buildings must comply with the "Residential Air Sealing Checklist".

16. Commercial Inspections

Structure(s) must be complete and ready to occupy. All sub trade Inspections must be approved prior to requesting Final Inspections. The Fire Inspector must conduct a final Inspection. All site improvements must be completed unless prior approval has been obtained from the Codes/Planning and/or Engineering Departments. All City Departments must indicate their approval with signatures prior to issuance of any Certificate of Occupancy.

17. Insulation Inspection

After approval of the framing inspection, insulation may be installed. Prior to the installation of wallboard, an insulation inspection is required which will verify proper R values, air sealing, insulation fire blocking, and general workmanship as required in the International Energy Code.

18. Final Inspection

This is done after all work shown on the approved plans has been completed, State Electrical Inspection, Final Plumbing and Final Mechanical inspections have been approved. Final grading must be complete and the structure is to be move-in ready.

19. Garages and Accessory Buildings

Accessory buildings are required to be constructed in accordance with the 2009 IRC/IBC. Portable building require a Final/Setback Inspection. Site built framed buildings shall have Footing/slab/setback Inspection prior to placement of concrete. For pre-fabricated buildings, please submit the manufacturers engineering design for the Inspection.

***Inspections may be done by another Department or Entity**